

Reference 2

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2000-241089

(43)Date of publication of application : 08.09.2000

(51)Int.Cl.

F28D 15/02

F28D 15/06

(21)Application number : 11-040956 (71)Applicant : MITSUBISHI ELECTRIC CORP

(22)Date of filing : 19.02.1999 (72)Inventor : KOBAYASHI TAKASHI
OGUSHI TETSURO
TSUJIMORI ATSUSHI
KAMOTANI YOSHIYASU

(54) EVAPORATOR, HEAT SINK, AND SYSTEM AND METHOD FOR TRANSPORTING HEAT

(57)Abstract:

PROBLEM TO BE SOLVED: To simplify the configuration of a heat transporting system and to reduce the size, weight, and cost of the system by making an external reservoir, pressure regulating heater, etc., unnecessary by arranging evaporators in series.

SOLUTION: This heat transporting system is constituted by arranging a plurality of evaporators 1 in series through liquid feed pipes 9 and connecting the first-stage evaporators 1 to a condenser 7 through a liquid feed pipe 8 and the final-stage evaporator 1 to reservoir tanks 10a, 10b, and 10c for liquid quantity adjustment. Liquid quantity measuring sensors 24 which measure the liquid quantities in the liquid reservoirs of the evaporators 1 are arranged and the liquids in the tanks 10a, 10b, and 10c are supplied to each evaporator 1 by operating control valves 12 based on the results of measurements of the sensors 24.

